

FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

31 MARCH 1977

PHARMACY RESEARCH

In scientific research, failure is often good luck, because a failure in one sense is often astounding success in another. When two researchers in the Faculty of Pharmacy and Pharmaceutical Sciences set out to synthesize a new class of drug that would act as an anti-depressant, they failed. But what they found instead, is just as, if not more, important.

Edward Knaus, Associate Professor of Pharmaceutical Chemistry, and Kinfe Redda, a Graduate Student under his supervision, set out to create a new class of chemical compounds that would act upon the nervous system to change mood and behavior. Dr. Knaus had a hunch that if pyridine compounds were reduced—that is, if hydrogen were added to them to change their molecular structure—the reduced pyridine compounds would have certain anti-depressant properties. As part of his PhD research, Mr. Redda carried out the necessary experiments under the supervision of Dr. Knaus. After about three years, the reduced pyridine compounds were achieved.

When the compounds were sent to a private pharmacological testing firm in Montreal, Bio-Research Laboratories, they were subjected to a broad spectrum of tests to determine their pharmacological properties. It was found, however, that the compounds created by Dr. Knaus and Mr. Redda exhibited no mood-changing qualities whatsoever. That was disappointing, but it was found that the compounds did have three other important properties.

Tests showed that the reduced pyridine compounds worked to reduce pain, to reduce inflammation, and to induce hyperglycemia (Hyperglycemia is a condition of excessive blood sugar levels.) The pain-killing and anti-inflammation properties would seem to have quite direct applications: both or either of them would be of great benefit to people suffering from arthritis for example. The applications of the hyperglycemia-inducing activities of the compounds, however are less obvious.

One of the promising possibilities for the increasing of blood sugar levels is weight control. The drug would cause the body to increase blood sugar levels; the only way to achieve the increased level would be for the body to begin breaking down stored fats to introduce more sugar into the bloodstream. Once the fats were broken down and the

sugar was in the blood, the glucose would be easily burned up or excreted. Such a drug would be a real aid to weight loss or weight control, something that a good number of North Americans could use.

Now the activities of the compounds are being studied, and the functions are being separated. Dr. Knaus explains that it is not normally a good idea to have one drug that has more than one effect. The more specialized the drugs are, the safer and more effective they are. An expert in diabetes and endocrinal functions at the University of Toronto, E. Marliss, has been given a research contract to study the hyperglycemic activities of the new drug to determine how it actually works on the body. A Danish pharmaceutical research firm, Dumex Pharmaceuticals, is currently studying the anti-inflammatory properties of the drug.

Dr. Knaus points out, however, that "it will take between five and seven years—if everything goes well—before the drug is on the market." This is because of the extensive, long-term testing that must be done before a new drug is deemed safe for marketing. Tests must made for toxicity, side-effects, effectiveness, and so on, and these tests will take a long time. Dr. Knaus is well aware of the possibility that somewhere along the line it may be found that the drug is not suitable, and it will never reach the market.

That does not seem likely, but in this field anything can happen. Of course, Dr. Knaus is busy working on developing other drugs. One of his prime concerns right now is the synthesis of a new anti-convulsant drug for epileptics. As he says, approximately .5 percent to 1 percent of the US population suffers from some form of epilepsy; of the thirteen compounds available to treat convulsions, there are a number that people do not respond to, there are a number that have adverse side-effects, and so on. Dr. Knaus hopes that it will be possible to create a drug that will be suitable for most epileptics and that will have no adverse effects. And it is probably hard for him to decide whether he hopes that in this case he will find what he is looking for; he might be just as pleased to find something he wasn't looking for, as he did this time. His main concern is to find drugs that will benefit people, and whether he finds those drugs by the rigors of the scientific method or by the grace of good luck, he is glad to have found them.

PURCHASING DEPARTMENT SYSTEM CONTRACTS CHANGES

Some changes have been planned to coincide with the introduction of two new contracts recently signed by the Purchasing Department. These changes will effect a wide spectrum of University staff and reflect suggestions made by a number of departments during the past year.

System changes

Experiments with the order/delivery system during the past few months have made possible a couple of changes. Effective immediately, mailing deadlines for release forms have been relaxed. Release forms may be deposited in the campus mail, *without* an envelope, prior to the *second* mail pickup (rather than the first) of each day. Deliveries from stock will still occur the next day. This applies to all existing and future contracts.

There is one exception: release forms for Canadian Laboratory Supplies *only* may be deposited as late as the *last* mail pickup of the day. These forms will still result in the delivery of merchandise the next afternoon.

Merchandise from Fisher Scientific Company is delivered every morning, while the bulk of the remaining contractors' materials is delivered each afternoon.

Also effective on 1 April it will no longer be necessary to write separate forms for system and non-system items. These items may be mixed on the same form providing each item is identified with an S or N. New forms that accommodate this change are being distributed. In the meantime, departments are encouraged to mix such items, using the old forms.

Contracts awarded

During 1976 contracts were awarded for electrical supplies and photographic materials. Tools and fasteners were added late in the year, and a separate contract for dental supplies is scheduled for introduction this summer. In order to allow further experience with, and subsequent evaluation of, a multi-contract operation, no further contracts are foreseen during the next year or two.

The University's first major system contract, for laboratory supplies and chemicals, has run its course and will expire 31 March. New agreements have been reached with Fisher Scientific Company Limited and Canadian Laboratory Supplies

Limited. Under the terms of these contracts, Fisher is restricted to the supply of only laboratory chemicals excluding Difco and BBL products, while Canlab will supply only the non-chemical products plus the Difco and BBL manufactured items. Both agreements are, of course, subject to the normal \$100 per unit limitation.

Central Stores counters have a system catalogue for each contract and are prepared to advise staff members in the ordering of materials. Specific inquiries, concerns, or requests for additional information, however, should be directed to the appropriate buying station.

Tools and fasteners: Chester's

Buyer: Matt Kuester—432-3786

Assistant: Rae Ehrman—432-4681

Photographic supplies: Edmonton Photo

Buyer: Lorraine Ulmer—432-4192

Assistant: Carol Robinson—432-4677

Electrical supplies: Wesco

Buyer: Lorraine Ulmer—432-4192

Assistant: Chris Tchir—432-5005

Laboratory supplies: Canlab

Laboratory chemicals: Fisher

Dental supplies: Denco

Buyer: Ron Fairweather—432-4679

Assistant: Janice Denney—432-4680

BOOKS

■ *Visions of My Grandfather*, a book of poetry by Douglas Barbour of the English Department, has just been published by The Golden Dog Press of Ottawa.

FOLIO

THE UNIVERSITY OF ALBERTA, EDMONTON, ALBERTA

Published every Thursday for the staff and interested persons by the University Publications Office. Copyright 1977

Jeanette Rothrock, Editor

FOLIO Policy Committee: E.D. Hodgson (Professor of Educational Administration), J.W. Carmichael (Professor of Bacteriology), and Aylmer A. Ryan (Provost and Executive Assistant to the President)

Staff: Greg Hickmore, David Chester, Shel Wilson (Writers)
Richard Kerr (Design Editor), Esther Fraser (Production)

Business Manager: A.S. Knowler (Chief Accountant, Office of the Comptroller)

FOLIO OFFICE Telephone 432-4991
326 Assiniboia Hall, The University of Alberta
Printed by the Printing Department
Photographic lab work by Technical Services

PEOPLE

■ L.C. Green, University Professor in the Department of Political Science, was appointed Associate Editor of *Terrorism*, a journal published in New York. Dr. Green has also been appointed Legal Adviser to, and Member of, the Canadian Delegation to the Fourth Session of the Geneva Conference on Humanitarian Law in Armed Conflict. On his way to Geneva, Dr. Green lectured on "Rebel armies, liberation movements, mercenaries, and the law of war" to the Faculty of Law at Queen's University. At Laval University's conference on "Le commonwealth et la francophonie," Dr. Green read a paper entitled "From empire through commonwealth to . . .?"

■ C. Hiruki, Professor of Plant Virology, has been invited by the American Phytopathological Society to contribute a section on virus diseases for the *Compendium of Potato Diseases*, which is sponsored by three organizations: the Potato Association of America, the International Potato Centre of Lima, Peru, and the American Phytopathological Society. This is a non-profit contribution by a group of internationally recognized specialists, with particular emphasis on international aspects of disease problems, biotic and abiotic, as influenced by variations in environment and potato culture throughout the world. Both English and Spanish editions will be published in 1978.

■ Recently, four members of the University community were elected to Executive Offices of the Biofeedback Association of Alberta. G. Fitzsimmons, Assistant Professor of Educational Psychology, was elected President; B. Pickles, Chairman of the Department of Physical Therapy, was elected Secretary; B. Hiebert, Graduate Student, was elected Vice-President; and J. Beaubien, Graduate Student, was elected Treasurer.

■ Bruce Bain, Associate Professor of Educational Psychology, gave two public addresses recently. He delivered a lecture entitled "The psychology of teaching English as a second language to minority group children in Canada" to the Continuing Education Department of the Edmonton Separate School Board. He also spoke to the Parents and Teachers Association of Holyrood Public School on "The issues involved in teaching French and Ukrainian immersion programs in Edmonton."

■ Gwynn Nettler, Professor of Sociology, gave seminars from 15 to 18 March at the University of Manitoba, the University of Waterloo, and the University of Western Ontario. Dr. Nettler spoke on "Causes and explanations."

NOTICES

COMMITTEE VACANCIES

At its meeting on 28 February 1977 General Faculties Council agreed to establish a special committee to explore, within the University and with the native groups in northern Alberta, the establishment of formal courses and teaching and research programs in Native Studies.

Those who have suggestions for nominations for this committee or who are interested in serving are requested to contact the Secretary of the Nominating Committee, 1-15 University Hall, telephone 432-4715.

VIDEOTAPE OF HUGH FAULKNER'S ADDRESS

The Department of Radio and Television videotaped the address given by the Honorable Hugh Faulkner, Minister of State for Science and Technology, on 21 March in TL-11 Tory Building. Copies of the videotape of "The unexamined premise: a search for Canadian unity" are available for viewing in both the Reserve Reading Room of the Cameron Library and the Humanities Audio-visual Centre.

ACADEMIC WOMEN'S ASSOCIATION MEETING

The Academic Women's Association will meet at the Faculty Club on Tuesday, 12 April, at 5:30 p.m. for a buffet dinner. The general meeting, beginning at 7:30 p.m., will include election of officers and a discussion of future directions for the AWA. Those wishing to attend should contact Sheila Bertram, 3-11 Rutherford South, telephone 432-5315, before Thursday, 7 April.

FOLIO EARLY DEADLINE

Because of the upcoming Easter long weekend on 8 April, the deadline for receiving notices and advertisements to appear in the 14 April issue of *Folio* will be 7 April at 9 a.m.

BOREAL INSTITUTE VISITOR

Fred Cooke, Associate Professor of Biology, Queen's University, will visit the Boreal Institute for Northern Studies on Monday, 4 April. Dr. Cooke is visiting several universities on behalf of the Churchill Research Centre to inform interested members of the academic community about the resources available at the Centre. He hopes to meet scientists who have a continuing interest in northern research to discuss their programs and to attempt to determine the specific requirements of scientists who plan research activity in the Keewatin District of the Northwest Territories or in northern Manitoba. Arrangements may be made to meet Dr. Cooke at the Institute by telephoning 432-4999 or 432-4512.

RICHARD EATON SINGERS

The Richard Eaton Singers will celebrate their

twenty-fifth anniversary with a presentation of Mendelssohn's *Elijah* on 16 and 17 April at 8 p.m. in All Saints' Cathedral, 10035 103 Street. Admission is \$3.50 regular and \$2.50 for senior citizens, and tickets are available at the Department of Music general office, 3-82 Fine Arts Centre, Mike's, from members of the Singers, and at the door.

SEMINAR FOR SECRETARIES AND OFFICE PERSONNEL

The Edmonton Chapter of the National Secretaries' Association is sponsoring a seminar for secretaries and office personnel. On Saturday, 23 April, in TLB-1 Tory Building. Mary Nixon of the Department of Educational Administration will speak on the topic of "Self-actualization through work experience," and Leslie Gue, Professor in that Department, will discuss "Understanding ourselves." The registration fee for the seminar is \$15 for members of the NSA and \$27.50 for non-members. The deadline for registration is 6 April. For further information contact J. Lemieux, telephone 456-2196, or H. Walker, telephone 466-7682.

THIS WEEK AND NEXT

Listings must reach the Editor by 9 a.m. the Friday prior to publication. Written notification is preferred.

31 MARCH, THURSDAY

Geophysics Seminar

3:30 p.m. "Electrostatic noise generated by auroral electron beams," with speaker James Maggs, UCLA. P-636 Physics Building.

Cinematheque 16

7:30 p.m. *Elektra* (Greece, 1962). Starring Irene Papas, music by Mikis Theodorakis. English subtitles. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

Art Gallery Concert

8 p.m. Classical music for brass quintet. Edmonton Art Gallery. Admission is free.

Chamber Music

8:30 p.m. A CBC Radio production, "An Evening of Chamber Music." Students' Union Theatre. Admission is \$3 at the door.

1 APRIL, FRIDAY

Education Seminar

10 a.m. "Competency-based teacher education," with speaker Robert Andreyka, Pennsylvania State University. 2-115 Education North.

Geography Seminar

3 p.m. "The integration of urban morphology and transportation development: past

experiences and future needs," with speaker James Vance, University of California at Berkeley. 3-36 Tory Building.

Faculty Club

Downstairs: From the grill: steak sandwiches, hamburgers, french fries, hot beef dips, tossed salad.

Upstairs: Fool's Paradise: chicken Kiev, rice, beans amandine, tomato salad, angel cake. \$5.50. Also regular dinner menu and lobster \$12.50. Reservations required.

Cinematheque 16

7:30 p.m. *Chile, The Promised Land/La Tierra Prometida* (Chile, 1973). English subtitles. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

National Film Theatre

8 p.m. *All the King's Men* (United States, 1949). Supporting actress Mercedes McCambridge. Supporting Actors Series. Centennial Library Theatre. Admission is \$2 regular, \$1.50 for students and senior citizens. Series tickets available at the HUB Box Office and the Centennial Library's A-V Desk; single admissions at the door.

Edmonton Symphony Orchestra

8:30 p.m. The Orchestra performs with Gary Graffman, pianist. Simon Streatfield conducting. Jubilee Auditorium. Program includes Handel and Prokofiev. For ticket information contact the Symphony Box Office, 11712 87 Avenue, telephone 433-2020.

2 APRIL, SATURDAY

Edmonton Art Gallery Concert

2:30 p.m. P.J. Perry and a six-piece band play jazz. Downstairs, Edmonton Art Gallery. Admission is free.

Faculty Club

Downstairs. Saturday special: coq au vin, noodles, mushroom salad, mocha cake. \$5.50. *Upstairs.* Regular dinner menu and lobster, \$12.50. Reservations required.

Edmonton Symphony Orchestra

8:30 p.m. The Orchestra performs with Gary Graffman, pianist. Simon Streatfield conducting. Program includes Handel and Prokofiev. For ticket information contact the Theatre Box Office, 11712 87 Avenue, telephone 433-2020.

3 APRIL, SUNDAY

Cinematheque 16

2 p.m. *The Spiral Staircase* (United States, 1946). Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

Edmonton Symphony Orchestra

2:30 p.m. The Orchestra performs with Gary Graffman, pianist. Simon Streatfield

conducting. Jubilee Auditorium. The program includes Handel and Prokofiev. For ticket information contact the Symphony Box Office, 11712 87 Avenue, telephone 433-2020.

4 APRIL, MONDAY

Music Lecture

8 p.m. "Remarks on a non-lunatic fringe," with speaker Paul Rappoport. Department of Music, 1-23 Fine Arts Centre.

Edmonton Jazz Society

8:30 p.m. The Tommy Banks Quintet performs with guest P.J. Perry. Co-sponsored by CBC. Students' Union Theatre. Admission is \$5. Tickets available at the HUB Box Office, Woodward's, Mike's, and at the door.

5 APRIL, TUESDAY

Canadian Cancer Society Lecture

4:30 p.m. "Adjuvant chemotherapy of early breast cancer," with speaker Gianni Bonadonna, Institute Nazionale Tumori, Milan, Italy. TL-11 Tory Building.

Science Dining Club

6 p.m. "The land turns green: the evolution of land plants," with speaker W. Stewart, Department of Botany. Dinner follows. Saskatchewan Room, Faculty Club. Reservations must be made with Mrs. Grant, telephone 432-4757, before 1 April.

National Film Theatre

8 p.m. *Grandma's Boy* (United States, 1922). Harold Lloyd Series. Centennial Library Theatre. Admission is \$2 regular, \$1.50 for students and senior citizens. Series tickets available at the HUB Box Office and the Centennial Library's A-V Desk; single admissions at the door.

6 APRIL, WEDNESDAY

Library Science Colloquium

11 a.m. "Western Canadian bibliography," with speaker Bruce Peel, Librarian to the University. 3-01 Rutherford South.

Edmonton Symphony Orchestra

8 p.m. The Orchestra performs with Canadian Brass. A CBC Presentation. Jubilee Auditorium. For ticket information contact the Symphony Box Office, 11712 87 Avenue, telephone 433-2020.

7 APRIL, THURSDAY

Population Studies Seminar

10:30 a.m. "A preliminary look at the Edmonton Area Study: theory, method, and data collection," with speaker L.W. Kennedy, Department of Sociology. 5-15 Tory Building.

German Film

7:30 p.m. *Nachtschatten*. 13 Arts Building. Admission is free.

Cinematheque 16

7:30 p.m. *The Decameron* (Italy/France/Germany, 1970). Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

Art Gallery Concert

8 p.m. Bernard Turgeon in recital. Edmonton Art Gallery. Admission is free.

Edmonton Youth Orchestra

8 p.m. The Orchestra performs Mahler's First Symphony and other works. John Barnum conducting. Students' Union Theatre. Admission is \$2 regular, \$1 for senior citizens and children. Tickets available at the door.

8 APRIL, FRIDAY**Cinematheque 16**

7:30 p.m. *Dr. Strangelove* (United States, 1963). Directed by Stanley Kubrick and starring Peter Sellers. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

9 APRIL, SATURDAY**Art Gallery Concert**

2:30 p.m. P.J. Perry and a six-piece band plays jazz. Edmonton Art Gallery. Admission is free.

Faculty Club

Downstairs. Saturday special: veal scallopini, gnocci, tomato salad, apple charlotte. \$5.50. *Upstairs.* Regular dinner menu. Reservations required. Entertainment: Charles Austin Trio.

EXHIBITIONS AND PLAYS**Provincial Museum**

Continuing. "Documentary Heritage," a long-term exhibition displaying valuable manuscripts and documents in the Provincial Archives of Alberta. Archives Gallery. *Continuing.* "Steam Power in Alberta," a permanent display, including a steam hoisting engine and a steamboat engine used in Alberta at the turn of the century, illustrating steam power at work in transportation, farming, and industry. Steam Gallery.

Rutherford House

Continuing. The House, 11153 Saskatchewan Drive, is furnished in its original manner. Admission is free. Saturday and Sunday, 12 noon to 6 p.m. Tours by appointment, telephone 427-3995 weekends, 427-5708 weekdays.

University Observatory

Continuing. The Observatory's twelve-inch telescope can be used to observe the moon, planets, and other astronomical objects. The Observatory is open at 8 p.m. and 9 p.m.

Fridays, by reservation. Group tours may be scheduled at other times. Admission is free. For further information or reservations telephone 432-4201.

University Art Gallery

To 22 April. "Creative Clothing Exhibit," a display of contest winners.

To 22 April. "Hooked Rugs: A Canadian Tradition," an exhibition of about sixty hooked rugs assembled by the Canadian Museum of Carpets and Textiles, Toronto, for International Women's Year. The Gallery is located at Ring House One, just south of the Faculty Club off Saskatchewan Drive. Gallery hours: Tuesday and Wednesday 11 a.m. to 4 p.m.; Thursday 11 a.m. to 9 p.m.; Sunday 2 p.m. to 5 p.m.

Students' Union Art Gallery

To 2 April. "Sculpture 77," an exhibition of recent works by undergraduates in the Department of Art and Design. Gallery hours: weekdays, 12 noon to 5 p.m.; weekends, 2 p.m. to 5 p.m.

Edmonton Art Gallery

To 1 April. "Aspects of Realism," a collection of paintings from eleven countries, sponsored by the Art Gallery and Rothman's of Pall Mall Canada.

To 20 April. "Printer's Proof Two," an exhibition of lithographs from the collection of John Roberts, Department of Art and Design.

To 30 April. "Children should be seen," an exhibition of children in art from the seventeenth century to the twentieth.

Jubilee Auditorium

To 4 April. "The Badlands," a collection of thirty oil paintings by Calgary artist Nettie Keehn. Jubilee Auditorium Foyer.

Northern Light Theatre

From 31 March. George Bernard Shaw's *Village Wooing*, a romantic comedy. Downstairs, Edmonton Art Gallery. Performances are at 12:10 p.m. Tuesday through Friday with extra performances at 1:10 p.m. Thursday and Friday. Saturday performances at 7:30 p.m. and 9 p.m. Admission is \$2 for weekday performances, \$1 for senior citizens, and \$2.50 for all Saturday performances.

Studio Theatre

To 6 April. *The Rimers of Eldritch* by Lanford Wilson. The play, set in a small town, revolves around the trial of a woman who has killed a presumed rapist. Directed by Dick Shank. Corbett Hall. Performances at 8:30 p.m. with a matinée at 2:30 p.m. Saturday. For ticket information contact the Theatre Office, 3-146 Fine Arts Centre, telephone 432-1271.

Citadel Theatre

To 2 April. Sharon Pollock's *The*



**STUDENTS' UNION
UNION DES ETUDIANTS**

SUB Arts and Crafts Centre

Easter Exhibition and Sale of Crafts

**Pottery
Macrame
Hangings
Jewellery
and much more**

SUB Art Gallery
April 1st to April 7th
Gallery Hours:
First Day 11 a.m. to 7 p.m.
Thereafter 12 noon to 6 p.m.
daily

Also **Registrations** will be accepted for the **Spring Session of Craft Classes** in pottery, macramé, weaving, knitting, crochet, and spinning. Classes begin the week of May 2nd and run for six weeks.

Don't miss the sale in the SUB Craft Shop beginning April 1st. Macramé Viscose (8 oz. skeins) \$2.50. Macramé Hyten (reg. \$4.50 to \$4.95) now \$3.50. **Half price** on macramé and knitting books, also Raffia and Reed.

We are also clearing some lines and colors of Yarn at greatly reduced prices.

For more information call 432-4547 or 432-3061.

folio accepts display advertising

Size and rates: the basic unit size is 45 agate lines x 15 picas (3¼" x 2½"). The full page is divided into 9 such units, any combination of which is available at a cost of \$20 per unit. Half pages cost \$100. A professional/business card unit (2½" x 1½") is available at a cost of \$12. Discounts are offered for extended runs; please enquire.

Other specifications: half-tones (100-line screen or less) are acceptable; no color or bleeds. Camera-ready copy is preferred; there is a charge of 15c per word for typesetting, and \$5 per line for design of work which is not camera ready. Deadline for submission is one week prior to publication (Thursday, 4 p.m.) for camera-ready copy; 10 days for all other advertising copy. Positioning is at the discretion of the editor.

Contact: Richard Kerr or Esther Fraser, 326 Assiniboia Hall, The University of Alberta; telephone 432-4991.

Komagata Maru Incident, a play about racism in Canada. Directed by John Neville. In the Rice Theatre.

From 2 April. Bethune, by Rod Langley, starring John Neville. A chronicle of the life of Norman Bethune, a Canadian doctor who took part in the Chinese revolution. In the Shoctor Theatre.

For ticket information contact the Theatre Box Office, 11018 102 Street.

POSITIONS VACANT

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 25 March.

ACADEMIC POSITIONS

Personnel Officer

Personnel Services and Staff Relations

This job involves recruiting and pre-selecting candidates for senior technical and administrative positions. The work requires considerable contact with University departments and off-campus organizations. Preparation and placement of advertisements is an important job responsibility.

Qualified applicants should have previous technical staffing experience and an undergraduate degree. An equivalent combination of training and experience will also be considered.

Starting salary is from \$14,127 to \$19,069 per annum, commensurate with qualifications and experience.

Apply to Personnel Services and Staff Relations, third floor, Students' Union Building.

NON-ACADEMIC POSITIONS

Clerk Typist II (\$578-\$700)—Bookstore; Housing and Food Services; Computing Services

Clerk Steno II (\$600-\$726)—Educational Foundations

Clerk Steno III (\$672-\$817, term, part-time)—Faculty of Pharmacy and Pharmaceutical Sciences

Clerk Steno III (\$672-\$817)—Secretariat; Genetics

Data Entry Operator I (\$672-\$817)—Computing Services

Accounts Clerk II (\$726-\$887)—Office of the Comptroller

Medical Steno (\$726-\$887)—Medicine; Surgery

Secretary (\$756-\$926)—Computing Science

Departmental Secretary (\$852-\$1,048)—Chemistry

Laboratory Assistant II (\$624-\$756)—Provincial Laboratory

Technician I (\$786-\$964)—Faculty of Medicine

Animal Technician I (\$786-\$964)—Bioscience Animal Services

Graphics Technician I (\$786-\$964)—Technical Services

Control Centre Operator I (\$817-\$1,005)—Physical Plant

Electronics Technician I (\$817-\$1,005)—Technical Services

Maintenance Worker I (\$852-\$1,048)—Physical Plant

Technician II (\$887-\$1,093)—Entomology; Physics

Audio Video Technician II (\$964-\$1,191)—Radio and Television

Programmer Analyst II (\$1,005-\$1,191)—Computing Services

Typographical Tradesman III (\$1,048-\$1,298)—Printing Services

Farm/Ranch Manager I/II (\$1,141-\$1,417)—Soil Science

Specialist Technician (\$1,417-\$1,767)—Physics

The following is a list of currently available positions in the University of Alberta Libraries. The bulletin board postings in the Library Personnel Office, 516 Cameron Library, should be consulted for further information about position requirements and availability.

Bookkeeper I (\$578-\$700)—Administration

Library Clerk II (\$600-\$726)—Acquisitions

Library Clerk III (\$649-\$786)—Cataloguing

PERSONAL NOTICES

All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance. We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.

Accommodation available

For rent—summer school period; large house adjacent campus. 432-3936; 439-5260.

For rent—3 July—19 August. Three-bedroom bungalow one mile from University, one block from Saskatchewan Drive. Also available for rent 19 December 1977—July 1978. Telephone 436-2079.

Val Quentin—Lac Ste. Anne; cosy three-bedroom cottage with view of lake. \$21,500. R. Richter, 455-4135; 488-6930. Weber Bros. Realty Ltd.

Immediate possession—superbly located in Lansdowne: eight-room two-storey; large family room (fireplace) off kitchen, three baths, main floor utilities, professionally finished basement. \$129,900. Mrs. Swelin, 436-5168; 435-4869. Royal Trust.

Open-beam three-bedroom bungalow built by McConnell. Ideal for owner who values simplicity, quality, and convenience. Full open basement. Beautiful landscaped setting, private garden and patio. Immaculate. Priced under \$74,000. Less than fifteen minutes from University. Pat von Borstel, 434-4939; business, 436-5250; or Barbara Allen, 434-0729; 426-5880 page 666. Spencer Real Estate.

10964-70 Avenue—two-bedroom bungalow. Large lot, excellent landscaping, garage. \$57,500. Telephone Ray Huot, 435-4869; 436-3695. Royal Trust.

For rent—1 July 1977—30 June 1978. Small furnished cottage, Scona area. \$350 month. No pets. Lease. 439-6653.

By owner—Belgravia. Four bedrooms, two baths; double garage; recreation room and den in basement. 436-3177.

Executive property for sale—located on the Derrick Golf Course in Westbrook Estates, this 2,350-square-foot home is completely finished with a warm, comfortable decor throughout. Features formal entertaining areas, cozy country-style kitchen, family room, deluxe master bedroom suite with private balcony and sauna. Jeanne Eid, 434-5780; Distacom: 426-5880 page 837, or Spencer Real Estate Ltd. 436-5250.

For rent—furnished three-bedroom, 1,600-square-foot custom bungalow (twenty—twenty-five minutes from campus), with large study-guest room in finished basement. Features full carpeting, open fireplace, built-in range, oven, and dishwasher; 2½ baths, washer and dryer, power humidifier, electronic air cleaner, piano, double garage with automatic opener; ½-acre lot, completely landscaped with approximately eighty spruce and birch. Available from 1 June 1977 to 1 July 1978 only. \$600 per month. No pets. References required. Telephone 962-3359 after 5 p.m.

Selling—eight treed acres, twenty-five miles north of Comox, B.C. 435-8486.

For rent—three-bedroom house. Millwoods; direct buses to University, downtown. May 1977—April 1978. 462-0955 after six.

For sale—architect's multi-level concept, specifically designed to take advantage of the beautiful view and contours of Patricia Ravine. Ideal for professionals needing separate studios. Asking price: \$169,500. Sales consultant: Jeanne Eid, 434-5780; Distacom: 426-5880 page 837, or business: Spencer Real Estate Ltd., 436-5250.

Summer sublet—12 June—31 August: furnished two-bedroom apartment adjoining campus. \$700 for whole period. 432-0864.

For sale by owner—beautiful Spanish-style half-duplex bungalow, ten months old; 1,272 square feet, three bedrooms, 1½ baths, fireplace, appliances; full dry-walled basement, fenced lot 42 x 115. Near all schools and bus. Large mortgage, no qualifications. \$63,500. 462-0509.

Family with home in Ottawa moving to Edmonton. Would like to exchange home with family moving to Ottawa. Please reply to Mr. C. Bullis, Edmonton 425-6330.

Spencer Real Estate Ltd. specializes in relocation of University personnel and handling professional investment portfolios. For confidential residential appraisals or national and international, telephone Jeanne Eid, 434-5780; or Liz Crockford, 434-0555; business, 436-5250.

For sale—Garneau thirteen-room house. Telephone 439-6117 daily, 7 to 9 p.m.

Garneau residence and revenue for the wise student or faculty member. Two mechanically renovated houses, two and four blocks from the University. From \$5,400 to \$25,000 to invest. Telephone Charles Sauer, Carman Realty 426-0560.

High, well-drained eighty acres, thirty-one miles on pavement southeast Edmonton. Gravelled approach to sheltered building site. Annual oil lease \$482. Power, gas, telephone available. \$42,000. Telephone 1-878-3782.

For rent—three-bedroom home for one year beginning June 1977. Non-smokers preferred. No pets. 435-1835.

Spotless three-bedroom home; bright kitchen with up-graded floor coverings, large Spanish-style rumpus room plus bedroom in lower area. Large lot. New listing. \$67,900. Telephone Mrs. Anderson, Royal Trust 435-4869; 434-4450.

For rent—large four-bedroom house, completely furnished, near University of British Columbia. \$500 month plus utilities. 1 July 1977—1 February 1978. R.J. Barman, Department of History, University of British Columbia, Vancouver.

For rent—fully furnished two-bedroom house, May through August. Near Westmount. 453-1432.

Summer rental—1 July to 15 September, or less. College Plaza one-bedroom facing south. 433-3504.

Summer sublet—small, nicely furnished apartment across street from University. \$218 month. 432-5401 or 433-4316.

For sale—large family home on large lot in Aspen Gardens near ravine; spacious family room, utility on main floor; needs decorating. Asking \$86,900. Telephone Mrs. Anderson, Royal Trust 435-4869; 434-4460.

Furnished three-bedroom house, June 1977—August 1978. Direct bus to University or fifteen-minute drive. 436-2271.

To rent—furnished house, walking distance to University and hospital. 1 August—summer 1978. 439-3387. 6:30—10:30 evenings.

For rent—three-bedroom deluxe townhouse, Riverbend; fireplace, 1½ baths, garage. \$520. 436-6091.

For sale by owner—distinctive architect-designed home and productive garden in Grandview Heights. 434-4175, evenings only.

Accommodation wanted

Sabbatical this year? Semi-retired gentleman, fifty-five, non-smoker. Of modest means. I have a taste for refined surroundings. Can I care for your home or apartment, including pets, while you're away? I enjoy classical music, reading, writing. Am quite flexible about arrangements. If interested, my office number is 482-1981. Bill Driedger.

Accommodation required by professor and family (four persons). 1 May to 30 June inclusive. 432-3261; 487-1982.

Wanted to rent—two-bedroom apartment or house for professor from Cambridge University. May to November 1977. 432-4403; evenings 434-5608.

Mature graduate student and family require three-bedroom unfurnished house with finished basement and appliances. Moderate rent. Possession May—for at least two years. 488-9621.

Visiting professor requires furnished house; July or August 1977 to summer 1978. Three bedrooms preferred. Telephone 432-4665 days; 434-0462 evenings.

House wanted—University area. Couple have sold their home and require a bungalow or semi-bungalow. Prefer Belgravia or McKernan area. 1 June possession. If you are thinking of selling your home in this area, please telephone Dorothy Hamilton, 439-7371; 436-8509. Kellough Realty.

Wanted—Furnished three-four-bedroom home for visiting professor and family (two teen-age children). Will take possession 1 September 1977 through 30 August 1978. Prefer South Side near University. For a reference contact Dr. Robert Wilberg, Faculty of Physical Education, University of Alberta. Write to: Dr. Jack Leavitt, 3365 St. Patrick's Drive, Windsor, Ontario. N9E 3H2.

Post-doctoral fellow, wife, and child require two-bedroom furnished or unfurnished accommodation. South of University. 439-5503.

Automobiles and accessories

For sale—1968 Volkswagen Beetle; sun roof; 23,000 miles. (403) 439-4065 evenings.

1966 Ford LTD four-door hardtop. \$500. 489-0195 after six.

1972 Econoline window van; automatic, power brakes, radio, trailer hitch, seat and bed in rear; 55,000 miles. Mechanically A-1; good rubber. 432-3633 or 434-3837.

For sale—1972 Citroen DS 21 Pallas, leather upholstery; in excellent condition. 434-4175 evenings.

Goods and services

Plumbing—for estimates on basement bathrooms, repairs, gasfitting, etc., call 465-7079.

Antiques from England for sale. Tables, chairs, buffets, bookcases, stools, dolls, clocks, porcelain, art-glass, commemoratives, Oriental porcelain, pictures, gifts, collectables. Mary Goulden Antiques, corner of 109A Avenue and 135 Street. Thursdays, Fridays, Saturdays, 10 to 5 p.m. 452-0397.

Shanghai House Mandarin Restaurant. Peking, Shanghai food—200 dishes. Peking duck—order in advance. Fire pot. Delicious, inexpensive. Monday through Friday, 4 p.m. to 10 p.m. Saturday and Sunday, 11 a.m. to 11 p.m. 6525 111 Street. 435-7622.

Handyman carpentry services. Telephone John, 434-9709 evenings.

Spectacular spring fishing in northern fly-in lake. Plan a derby with your department. For brochure or further information telephone Canadian Frontier Lodges, 434-3104.

Typing—papers, books, theses, etc. 467-6201.

The Alliance Française, a non-profit organization, offers courses in French at all levels to both adults and children. Telephone 433-7946 and leave your name and telephone number.

Babies—three- to nine-month-old volunteers needed for a short observation of early learning. Dr. Cornell, 432-5216.

Childcraft library, 1970 edition. Excellent condition; fifteen-volume set. \$80. 435-2412.

Reduced fare to the Orient. Telephone 475-1109.

Interested in having your garden rototilled in time for spring planting? Telephone Jerry, 439-3531 for good, dependable service.

Will babysit two children, ages 2—5, my home, Monday to Friday. I am a qualified nursing aide. Telephone Mary, 439-3531.

Registered Maltese for stud. 433-0387 after 6 p.m.

Aspen Salon de Conversation Française offers French conversation class, language and literature. Information and registration: telephone 435-4467.

Closet sale—cheap prices. Sony TC122 (cassette), TC100 (reel); multiplex receiver/amp; Philips turntable, 2500 cassette pb deck; Bogen. Bell amplifiers. Telephone 432-6361; 439-2559 after five.

The Oriental Rug Shop

Importers of . . . Persian Rugs

10147 - 103 Street
Telephone 429-3978

Stained Glass Windows

Art Glass & Mosaic Works
of Western Canada

Designing-Manufacturing
Installations

Restorations-Repairs
No. 3 9430-118 Ave.
Edmonton 477-1601



UNIVERSITY BRANCH
"Serving South West Edmonton"

MARGARET NEWTON

10624 82 Avenue
EDMONTON, ALBERTA

Bus 439-3995
Res 436-0040